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[1. NIH/NIAID 033: Precision Genome Engineering for HIV Eradication](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background Highly active antiretroviral therapy is now optimized to control HIV-1 replication long-term, but the virus remains integrated into the host genome in a latent form and poses a threat for re-emergence. In search for more potent therapeutic agents geared towards HIV cure, newly developed chimeric nucleases, which allow the precise modification of viral and human genomes, have recently be ...

SBIR Department of Health and Human Services

[2. NIH/NIAID 034: High-Throughput Assay Platform for Quantifying Latent HIV Reservoirs](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background One of the most significant hurdles to overcome in evaluating strategies to cure HIV infection is the lack of a simple method for quantifying changes in the size of the latent reservoir of replication-competent HIV in resting CD4+ memory T cells in individuals on highly effective antiretroviral therapy. Most of the HIV DNA in these cells represents defective virus; less than 0.01% of hi ...

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[3. NIH/NIAID 035: Method for the Detection of Minority Populations of Drug Resistant HIV](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background Antiretroviral therapy (ART) reduces mortality and morbidity in HIV-infected individuals. With successful therapy HIV RNA becomes undetectable, but drug resistance may occur. Specific HIV mutations are associated with resistance and these mutations can be detected through standard genotypic resistance tests, which have the ability to detect mutations only when they are present in ...

SBIR Department of Health and Human Services

[4. NIH/NIAID 036: Simple, Inexpensive Device to Purify DNA from Sputum for Tuberculosis Testing](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background Tuberculosis (TB) continues to cause significant mortality and morbidity throughout the world, especially in HIV-infected individuals. Increases in drug resistant TB cases have been occurring in many high endemic countries that have limited resources to identify and diagnose patients. Standard diagnostic techniques for TB include sputum smear microscopy to detect acid fast bacilli ...

SBIR Department of Health and Human Services

[5. NIH/NIAID 037: Telemonitoring for Infectious Diseases: A Remote System for Assessing Patient Parameters and Specimen Analysis](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background Traditional methods for the diagnosis and clinical management of infectious diseases require the direct assessment of a patient's symptoms, vital signs, and often the collection and analysis of clinical specimens by health care practitioners, usually in a health care setting. Recent scientific advances in mobile and remote monitoring technologies have enabled home-based telemoni ...

SBIR Department of Health and Human Services

[6. NIH/NIAID 038: Innovative Oral Formulations for Anti-Infective Drugs](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background There is a persistent need to develop alternative, simple to administer formulations of FDA approved anti-infective agents for use by children and by adults who have difficulty taking traditional tableted drugs. These formulations will simplify administration for caretakers and patients and ensure compliance. There are few child-friendly formulations of pediatric anti-infective m ...

SBIR Department of Health and Human Services

[7. NIH/NIAID 039: Vaccines against Pathogens with Small Market Potential](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Background There is an urgent need to develop vaccines against pathogens affecting a relatively small segment of the US population. While the market or segment of the overall population affected may be statistically small, the morbidity and mortality in some cases can be quite substantial. NIAID is interested in receiving proposals to develop vaccines against small or limited market-type pat ...

SBIR Department of Health and Human Services

[8. NIH/NIDA 158: Development of Primer and Reference Tool to Assess Neonatal Abstinence Syndrome](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Objective This topic addresses the demand to promote awareness and knowledge of the best practice in management of Neonatal Abstinence Syndrome (NAS). The need is caused by clinical rigor and raised concerns among neonatal and pediatric practitioners regarding a constellation of various withdrawal symptoms and treatment approaches. The ultimate goal of this solicitation is to develop a skill-build ...

SBIR Department of Health and Human Services

[9. NIH/NIDA 159: Therapeutic Cannabidiol Pulmonary Delivery Device \(e.g. Nebulizer, Vaporizer or Inhaler\)](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Objective To develop a pulmonary delivery device that can administer therapeutic doses of the non-psychoactive cannabinoid CBD. The ultimate goal is to generate a sufficiently characterized clinical tool such that the Food and Drug Administration (FDA) would allow it to be used to evaluate the efficacy of inhaled CBD as a therapeutic agent in clinical trials. This opportunity is open to all Small ...

SBIR Department of Health and Human Services

[10. NIH/NIDA 160: "The Pain Mobile": Remote Pain Management System](#)

Release Date: 07-24-2015 Open Date: 07-24-2015 Due Date: 10-16-2015 Close Date: 10-16-2015

Objective Provide in-home access to coordinated comprehensive pain treatment through a mobile treatment platform. This platform may range from a fully equipped mobile clinic, to a mobile extension of a traditional pain clinic, or a virtual network of mobile treatment services. Note that opioids may be part of this comprehensive treatment plan and may be

prescribed, if warranted, but wi ...

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